

## CLAIMS

What is claimed is:

- Sub 91
1. A method for compressing a message comprising:
    - 2 identifying a block of data within said message which is found in a
    - 3 previous message;
    - 4 generating a pointer identifying said block of data in said previous
    - 5 message; and
    - 6 replacing said block of data in said message with said pointer.
  - 1 2. The method as in claim 1 further comprising:
    - 2 transmitting said message to a data processing device, said data
    - 3 processing device having said previous message stored thereon.
  - 1 3. The method as in claim 2 further comprising:
    - 2 decompressing said message by inserting said block of data from said
    - 3 previous message into said message.
  - 1 4. The method as in claim 1 further comprising:
    - 2 identifying said previous message based on characters in said message's
    - 3 subject field.
  - 1 5. The method as in claim 4 wherein said characters include text
  - 2 indicating that said message is a response to said previous message.

6. The method as in claim 1 further comprising:  
compressing said message further using one or more alternate  
compression techniques.

7. The method as in claim 6 wherein one of said alternate compression  
techniques comprises:  
replacing common strings of characters with one or more code words.

8. The method as in claim 7 wherein one of said strings of characters is  
an email address domain.

9. The method as in claim 1 further comprising:  
encoding portions of text in said message not in said block of data using  
6-bits per character.

10. The method as in claim 1 wherein said message is an email  
message.

11. A system for compressing messages comprising:  
message identification logic for identifying a previous message which  
contains a block of data found in a new message;  
state-based compression logic for compressing said message by  
replacing said block of data with a pointer identifying said block of data in said  
previous message.

1 12. The system as in claim 11 further comprising:  
2 transmission logic for transmitting said message to a data processing  
3 device, said data processing device having said previous message stored  
4 thereon.

1 13. The system as in claim 12 further comprising:  
2 decompression logic to decompress said message on said wireless data  
3 processing device by inserting said block of data from said previous message  
4 into said message.

1 14. The system as in claim 11 wherein said message identification logic  
2 identifies said previous message based on characters in said message's subject  
3 field.

1 15. The system as in claim 14 wherein said characters include text  
2 indicating that said message is a response to said previous message.

1 16. The system as in claim 11 further comprising:  
2 one or more alternate compression modules for compressing said  
3 message further using one or more alternate compression techniques.

1 17. The system as in claim 16 wherein one of said alternate compression  
2 modules comprises:  
3 a code word generation module which replaces common strings of  
4 characters with one or more code words.

8 46937 18. The system as in claim 17 wherein one of said strings of characters is  
2 an email address domain.

1 19. The system as in claim 16 wherein one of said alternate compression  
2 modules comprises a 6-bit text encoding module to encode portions of text in  
3 said message not in said block of data using 6-bits per character.

1 20. The system as in claim 11 wherein said message is an email  
2 message.

1 21. A method comprising:  
2 providing an interface to a message service, said interface compressing  
3 messages and forwarding said compressed messages to a data processing  
4 device,  
5 wherein said interface compresses a message by searching for prior  
6 messages transmitted to or received from said data processing device which  
7 contain a block of data found in said message and replacing said block of data  
8 with a pointer to said block of data in said prior messages.

1 22. The method as in claim 21 wherein said message is an email  
2 message.

1 23. The method as in claim 21 further comprising:  
2 transmitting said message to a data processing device, said data  
3 processing device having said previous message stored.

1 24. The method as in claim 22 further comprising:

2 decompressing said message at said data processing device by inserting  
3 said block of data from said previous message into said message.

1 25. The method as in claim 21 wherein said interface identifies said  
2 previous message based on characters in said message's subject field.

1 26. The method as in claim 25 wherein said characters include text  
2 indicating that said message is a response to said previous message.

1 27. The method as in claim 21 wherein said interface further compresses  
2 said message further using one or more alternate compression techniques.

1 28. The method as in claim 27 wherein one of said alternate compression  
2 techniques comprises:  
3 replacing common strings of characters with one or more code words.

1 29. The method as in claim 28 wherein one of said strings of characters is  
2 an email address domain.

1 30. The method as in claim 21 wherein said interface further compresses  
2 said message by encoding portions of text in said message not in said block of  
3 data using 8 bits per character.